PATENT

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## **ABSTRACT OF THE DISCLOSURE**

A method and apparatus for reducing the difficulty of controlling the length of a section of optical waveguide wrapped around a mandrel separating Bragg gratings forming an interferometric sensor are provided. The section of optical waveguide may be wrapped on a mandrel having at least two different outer diameters. The mandrel may also include one or more bores for receiving and protecting the Bragg gratings.